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EXPERIMENT STATION FILE

**UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.**

HENRY S. GRAVES, Forester.

January Field Program, 1920

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge; William R. Chapline, grazing examiner, Washington, D. C.

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Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner, in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. R. Hill, grazing examiner, in charge, Tucson, Ariz.

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LAND CLASSIFICATION.—JOHN D. JONES, in charge.

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STATUS.—J. B. SATTERLEE, J. E. BURCH.

ACQUISITION.—W. W. ASHE, forest inspector, in charge.

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SURVEY OF LANDS.—RUDOLPH DIEFFBENBACH, forest examiner in charge, Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, E. R. Conrad and Paul G. Jenney, Harrisonburg, Va.; Nantahala Area, James Denman, Asheville, N. C.; Pisgah Area, Walter H. Sullivan, Asheville, N. C.; Mount Mitchell Area, Dave M. Gibson, Asheville, N. C.; Natural Bridge Area, Alfred R. Kinney, Buena Vista, Va.; Savannah Area, W. N. Sloan, Franklin, N. C.; Cherokee Area, Carl F. Muzzey, Athens, Tenn.

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RESEARCH.

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Studies.—**C. R. Tillotson**, **W. D. Sterrett**, **W. N. Sparhawk**, **E. R. Hodson**, **E. H. Frothingham**, and **W. R. Mattoon**. **Willis Munro** (in cooperation with the Bureau of Entomology).

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———. —**C. F. KORSTIAN**, forest examiner, Ogden, Utah.

———. —**E. N. MUNNS**, forest examiner, San Francisco, Calif.

WIND RIVER, COLUMBIA NATIONAL FOREST.—**JULIUS V. HOFMANN**, forest examiner in charge, Stabler (railroad point, Carson), Wash.; **Chas. J. Kraebel**, forest examiner.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—**CARLILE P. WINSLOW**, director; **O. M. BUTLER**, assistant director; **H. D. Tiemann**, dry-kiln specialist; **C. V. Maudlin**, assistant engineer in forest products.

Publication of Results.— ———, in charge; **Ray C. Tuttle**.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge; Ernest Bateman, Samuel A. Mahood, E. C. Sherrard, Howard N. Calderwood, G. W. Blanco, D. E. Cable, George G. Town.

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TIMBER MECHANICS.—J. A. NEWLIN, in charge; L. J. Markwardt, T. R. C. Wilson, J. S. Mathewson (on detail, Washington office), G. E. Heck, H. S. Grenoble, R. P. A. Johnson, R. F. Luxford, J. R. Watkins, C. B. Norris, John M. Gahagan.

Box Tests.————, in charge; J. B. Frear, C. A. Plaskett.

TIMBER PHYSICS.—ROLF THELEN, in charge; C. V. Sweet, A. Koehler, Miss Eloise Gerry, M. C. Jensen, Lawrence V. Teesdale, D. R. Brewster, J. D. Studley, W. K. Loughborough, Miss Gertrude Griffin.

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Laminated Wood Studies.—A. L. Heim, in charge; A. C. Knauss, Louis Seutter, Carl A. Menzel, R. M. Wirka.

LUMBER STUDIES.————, in charge; D. G. White.

PATHOLOGY (in cooperation with Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Miss C. Audrey Richards.

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ENGINEERING.

O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer.

ROADS.—T. W. NORCROSS, in charge; JOHN L. COBBS, forest examiner.

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MAPS AND SURVEYS.—F. E. BONNER, assistant engineer in charge; C. A. KOLB, geographer.

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DISTRICT 1.

NORTHERN DISTRICT.

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ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.———, assistant district forester; G. I. PORTER, executive assistant; ELMERS KOCH, fire suppression; R. B. ADAMS, telephone engineer; LEWIS C. STOCKDALE, improvements.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—ELMERS KOCH, in charge; J. C. Van Hook, State forester, Helena, Mont.; I. H. NASH, State land commissioner, Boise, Idaho, collaborators.

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LOGGING ENGINEERING.—J. W. GIRARD, U. S. SWARTZ.

TIMBER SALES.—Field Supervision, ———.

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PRODUCTS.—C. L. BILLINGS, lumberman; C. N. WHITNEY, forest examiner.

INSECT CONTROL.———.

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STUDIES.—L. C. HURTT, grazing examiner.

GRAZING RECONNAISSANCE.—W. R. SCHOFIELD.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN, law examiner; F. R. INGALSBEE, mineral examiner.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer; F. E. THIEME, assistant district engineer.

MAPS AND SURVEYS.—J. B. YULE, in charge.

Topographic Surveys.—J. B. YULE.

Drafting.—FRANK J. COOL.

Photography.—K. D. SWAN.

Entry Surveys.—F. E. THIEME.

ROADS.—G. H. LAUTZ, in charge; H. A. CALKINS.

WATER POWER.—E. W. KRAMER, in charge.

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- Nezperce.**—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU) ; R. N. Cunningham, fire assistant.
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- Selway.**—F. J. JEFFERSON, forest supervisor, Kooskia (WU) ; F. J. Klobucher and F. T. Carroll, fire assistants.
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- Sioux.**—J. C. WHITHAM, forest supervisor, Miles City (WU) ; W. L. Baldwin, forest examiner.

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- Kaniksu.**—H. R. FLINT, forest supervisor, Newport (WU via Priest River-Exp., via Priest River) ; A. J. Feary, deputy forest supervisor ; C. R. Clark, forest examiner ; J. S. Baird, lumberman ; G. W. Kitch, fire assistant.

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STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—JOHN McLAREN, in charge ; ———, State forester, Custer, S. Dak., collaborator.

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RESEARCH.—P. J. PAXTON, forest examiner.

TIMBER SURVEYS AND INSECT CONTROL.—W. J. PEARCE, forest examiner.

PLANTING.—FRED R. JOHNSON.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester ; LYNN H. DOUGLAS, inspector of grazing.

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ENGINEERING.—FRED D. MENDENHALL, district engineer ; J. L. BROWNLEE, assistant district engineer.

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Entry Surveys.—W. C. CAMPBELL.

Topographic Surveys.—J. BURGESS, acting.

ROADS.—FRED D. MENDENHALL, in charge ; J. L. BROWNLEE.

WATER POWER.—FRED D. MENDENHALL.

NATIONAL FORESTS.

COLORADO.

Arapaho.—E. W. TINKER, forest supervisor, Hot Sulphur Springs (WU).

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction (WU).

Cochetopa.—FRED B. AGEE, forest supervisor, Saguache (WU) ; Clarence E. Taylor, forest examiner.

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Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU).

Hayden.—See Wyoming.

Holy Cross-Sopris.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU) ; G. M. Hunter, deputy forest supervisor ; Robert H. Easterbrooks, forest examiner.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P).

Montezuma.—A. F. C. HOFFMAN, forest supervisor, Mancos (WU) ; Charles Steuart, forest examiner.

- Pike.**—ARTHUR T. UPSON, forest supervisor, Denver (WU, P) ; Wm. R. Fraser, deputy forest supervisor ; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.
- Rio Grande.**—A. L. SWEITZER, forest supervisor, Monte Vista (WU) ; Walter F. Bowers, deputy forest supervisor.
- Routt.**—RAY PECK, forest supervisor, Steamboat Springs (WU) ; Alve L. Richey, deputy forest supervisor.
- San Isabel.**—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).
- San Juan.**—LESLIE BROWNELL, forest supervisor, Pagosa Springs (WU) ; Chas. B. Mack, deputy forest supervisor.
- Uncompahgre.**—DWIGHT S. JEFFERS, forest supervisor, Delta (WU) ; Harold L. Borden, forest examiner.
- White River.**—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU) ; Theodore Krueger, forest examiner.

MICHIGAN.

- Michigan.**—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

MINNESOTA.

- Minnesota.**—G. E. MARSHALL, forest supervisor, Cass Lake (WU). Cass Lake Nursery.
- Superior.**—C. A. DAHLGREN, forest supervisor, Ely (WU) ; Robert G. Schreck, forest examiner.

NEBRASKA.

- Nebraska.**—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

SOUTH DAKOTA.

- Black Hills.**—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU) ; Chas. L. Cecil, deputy forest supervisor ; L. E. Hitchcock, forest examiner.
- Harney.**—JAMES F. CONNER, forest supervisor, Custer (WU) ; John V. Leighou, forest examiner.

WYOMING.

- Bighorn.**—RESS PHILIPS, forest supervisor, Sheridan (WU) ; Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

Hayden.—JAMES BLACKHALL, forest supervisor, Encampment (WU, P).

Medicine Bow.—EARL S. PEIRCE, forest supervisor, Laramie (WU, P); Andrew Hutton, forest examiner; Jas. C. Jensen, lumberman.

Shoshone.—J. W. LOWELL, Jr., forest supervisor, Cody (WU); E. T. Wolf, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU).

DISTRICT 3.

SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

FRANK C. W. POOLER, district forester; WARD SHEPARD, forest examiner, educational cooperation, and game protection.

LAW.—Office of the Solicitor (Forest Service branch). CHARLES S. BROTHERS, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—ALDO LEOPOLD, assistant district forester, in charge; H. G. CALKINS, forest supervisor; EDWARD P. ANCONA, deputy forest supervisor.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—R. E. MARSH, assistant district forester; D. M. LANG, lumberman; QUINCY RANGLES, forest examiner.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

STUDIES.—M. W. TALBOT and C. K. COOPERRIDER, grazing examiners.

LANDS.———, assistant district forester; FRANK E. ANDREWS, forest supervisor, acting in charge; M. M. CHENEY, national forest examiner. Classification: REX KING and H. D. BURRALL, forest examiners.

ENGINEERING.—C. A. LONG, district engineer.

MAPS AND SURVEYS.———.

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Entry Surveys.—A. W. HENDRIX and NELSON F. NEWMAN, surveyors.

ROADS.—C. A. LONG, in charge. Trail Surveys: J. C. MULDER, CHAS. H. KISSAM, R. L. HUGHES.

WATER POWER.—C. A. LONG, in charge.

NATIONAL FORESTS.

ARIZONA.

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- Coconino.**—EDWARD G. MILLER, forest supervisor, Flagstaff (WU, P); Kenner C. Kartchner, deputy forest supervisor; Robert F. Rhinehart, lumberman; Leonard R. Lessel, national forest examiner; James W. Girdner and John A. Adams, deputy forest supervisors.
- Coronado.**———, forest supervisor, Tucson (WU); H. Basil Wales, forest supervisor, acting in charge; Stanley F. Wilson, forest examiner.
- Crook.**—T. T. SWIFT, forest supervisor, Safford (WU).
- Prescott.**—ROBERT L. DEERING, forest supervisor, Prescott (WU); J. C. McNelty, deputy forest supervisor.
- Sitgreaves.**—T. C. HOYT, forest supervisor, Snowflake (P).
- Tonto.**—W. H. GODDARD, forest supervisor, Roosevelt (WU); J. H. Sizer, deputy forest supervisor.
- Tusayan.**———, forest supervisor, Williams (WU, P); Francis L. W. Grubb, deputy forest supervisor, acting in charge; Chester V. Christensen, deputy forest supervisor.

NEW MEXICO.

- Carson.**—JOHN D. GUTHRIE, forest supervisor, Taos (WU); L. R. De Camp, deputy forest supervisor.
- Coronado.**—See Arizona.
- Datil.**—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P); Robert Munro, national forest examiner; Thomas C. Turk, deputy forest supervisor.
- Gila.**—FREDERIC WINN, forest supervisor, Silver City (WU, P); James A. Scott, deputy forest supervisor.
- Lincoln.**—O. F. ARTHUR, forest supervisor, Alamogordo (WU); William J. Anderson, deputy forest supervisor.
- Manzano.**—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P); L. J. Putsch, deputy forest supervisor.
- Santa Fe.**—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P); Earl W. Loveridge, deputy forest supervisor; Gordon T. Backus, forest examiner. Las Gallinas Nursery. Herman Krauch, forest examiner.

DISTRICT 4.

INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; JAMES E. SCOTT, national forest inspector, educational cooperation, information.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—HOMER A. SEIP, district fiscal agent.

OPERATION.—VERNON METCALF, assistant district forester; CHAS. D. SIMPSON, acting assistant district forester; CARL B. ARENTSON, forest supervisor, executive assistant; R. B. ADAMS, telephone engineer.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.———, in charge; I. H. NASH, State land commissioner, Boise, Idaho, collaborator.

MAINTENANCE.—CLYDE M. GWIN.

SILVICULTURE.—C. B. MORSE, assistant district forester; D. F. SEEREY, logging engineer; S. S. STEWART, forest examiner.

PLANTING.—E. H. HALL, in charge. Cottonwood Nursery, N. J. FETHEROLF, planting assistant, in charge, Sugarhouse, Utah.

GRAZING.—C. N. WOODS, assistant district forester; ERNEST WINKLER, inspector of grazing; S. B. LOCKE, forest examiner, fish and game.

STUDIES.—LAWRENCE J. PALMER, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys.

RESEARCH.—F. S. BAKER, forest examiner.

ENGINEERING.—J. P. MARTIN, district engineer; F. J. RYDER, administrative assistant.

MAPS AND SURVEYS.—O. C. LOCKHART, Jr., in charge.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge; H. G. MCPHETERS, assistant.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

- Boise.**—E. GRANDJEAN, forest supervisor, Boise (WU) ; Lyle F. Watts, deputy forest supervisor.
- Cache.**—See Utah.
- Caribou.**—EARL C. SANFORD, forest supervisor, Montpelier (WU).
- Challis.**—DAVID LAING, forest supervisor, Challis (WU).
- Idaho.**—WALTER G. MANN, forest supervisor, McCall (WU, P).
- Lemhi.**—CHAS. F. EVANS, forest supervisor, Mackay (WU).
- Minidoka.**—W. M. CAMPBELL, forest supervisor, Burley (WU) ; J. W. Stokes, deputy forest supervisor.
- Payette.**—GUY B. MAINS, forest supervisor, Emmett (WU) ; F. S. Moore, deputy forest supervisor.
- Salmon.**—S. C. SCRIBNER, forest supervisor, Salmon (WU) ; Ernest A. Renner, deputy forest supervisor.
- Sawtooth.**—M. S. BENEDICT, forest supervisor, Hailey (WU) ; Leslie E. Dodge and C. M. Mangun, deputy forest supervisors.
- Targhee.**—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU) ; John N. Kinney, deputy forest supervisor.
- Weiser.**—J. B. LAFFERTY, forest supervisor, Weiser (WU) ; T. V. Pearson, deputy forest supervisor.

NEVADA.

- Humboldt.**—C. E. FAVRE, forest supervisor, Elko (WU) ; Oscar W. Mink, deputy forest supervisor.
- Nevada.**—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).
- Toiyabe.**—JAS. W. MCGOWAN, forest supervisor, Austin (WU, P).

UTAH.

- Ashley.**—W. M. ANDERSON, forest supervisor, Vernal (WU).
- Cache.**—E. C. SHEPARD, forest supervisor, Logan (WU) ; Edmund B. S. Spencer, deputy forest supervisor.
- Dixie-Sevier.**—WM. M. MACE, forest supervisor, Cedar City (WU) ; Wallace M. Riddle, deputy forest supervisor.
- Fillmore.**—JOHN RAPHAEL, forest supervisor, Richfield (WU) ; A. M. Woodbury, deputy forest supervisor.
- Fishlake.**—C. A. MATTSSON, forest supervisor, Salina (WU).
- La Sal.**—CHAS. DEMOISEY, Jr., forest supervisor, Moab (WU).
- Manti.**—J. W. HUMPHREY, forest supervisor, Ephraim (WU).
- Minidoka.**—See Idaho.
- Powell-Sevier.**—GEO. H. BARNEY, forest supervisor, Widtsoe (WU).
- Uinta.**—W. W. BLAKESLEE, forest supervisor, Provo (WU) ; R. D. Garver, forest examiner.
- Wasatch.**—DANA PARKINSON, forest supervisor, Salt Lake City (WU, P) ; David A. Arrivee, deputy forest supervisor.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.
Teton.—A. C. MCCAIN, forest supervisor, Jackson (WU).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU); Lewis B. Koch, scaler, in charge of Standard Timber Co. sale.

DISTRICT 5.

CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Calif.

PAUL G. REDINGTON, district forester.

ECONOMIC STUDIES.—C. A. KUPFER.

INFORMATION.—R. F. HAMMATT, in charge; ———, in charge exhibits.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester.

FINANCE.—C. WILEY, national forest inspector.

PERSONNEL.—PAUL P. PITCHLYNN, forest supervisor.

IMPROVEMENT.—C. E. JORDAN, national forest examiner. F. H. HAFLEY, telephone engineer.

FIRE COOPERATION.—E. I. KOTOK, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—E. I. KOTOK, in charge; G. M. Homans, State forester, Sacramento, Calif., collaborator.

PURCHASE.—F. HAYNIE, national forest inspector.

LAW ENFORCEMENT.—C. L. HILL, forest examiner, in charge. C. V. BRERETON, national forest examiner, field investigations.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—————.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

RESEARCH.—S. B. SHOW, forest examiner in charge; E. N. MUNNS and DUNCAN DUNNING, forest examiners.

INSECT CONTROL.—————.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist; J. S. BOYCE, H. G. LACHMUND, ARTHUR S. RHOADS, R. A. STUDHALTER, N. REX HUNT, assistants.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; GEORGE MILLER, national forest examiner.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. FRIEDHOFF, mineral examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer; F. A. LAW, administrative assistant.

MAPS AND SURVEYS.—S. W. WYNNE, in charge; PERCY L. DAY, S. N. STONER, field surveys.

Drafting.—H. A. SEDELMAYER, acting.

ROADS.—F. H. FOWLER, in charge.

WATER POWER.—F. H. FOWLER, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P).

California.—J. D. COFFMAN, forest supervisor, Alder Springs via Willows (WU); B. H. Mace, deputy forest supervisor.

Cleveland.———, forest supervisor, San Diego (WU).

Eldorado.———, forest supervisor, Placerville (WU).

Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU).

Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU); Sherley W. Allen, forest examiner.

Lassen.—C. E. DUNSTON, forest supervisor, Red Bluff (WU); T. C. West, deputy forest supervisor; A. E. Weislander, forest examiner.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).

Mono.—See Nevada.

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU); Richard A. Colgan, jr., forest examiner; George R. Orr, lumberman.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P).

Sequoia.—F. P. CUNNINGHAM, forest supervisor, Hot Springs (WU); Wm. F. Derby, deputy forest supervisor.

Shasta.—N. H. SLOANE, forest supervisor, Sisson (P); Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursey, Roscoe Weaver, forest examiner.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant-Exp. via Friant).

Stanislaus.—J. V. WULFF, forest supervisor, Sonora (WU); M. R. Brundage, forest examiner.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU); Geo. W. Lyons, forest examiner.

Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Minden (WU).

Tahoe.—See California.

DISTRICT 6.

NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; SHIRLEY BUCK and H. M. WHITE, national forest inspectors; M. L. MERRITT, forest examiner, improvements; C. M. ALLEN, telephone engineer; W. B. OSBORNE, Jr., forest examiner, fire protection; H. L. PLUMB, forest examiner, trails.

INSPECTION OF PROTECTION OF OREGON & CALIFORNIA RAILROAD LANDS.—R. H. CHAPLER, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—R. H. CHAPLER, in charge; F. A. Elliott, State forester, Salem, Oreg.; F. E. Pape, State forester and fire warden, Olympia, Wash., collaborators.

MAINTENANCE.—H. G. WHITNEY.

SILVICULTURE.—F. E. AMES, assistant district forester.

TIMBER SALES.—F. E. AMES; THORNTON T. MUNGER, forest examiner.

LOGGING ENGINEERING.—BRUCE E. HOFFMAN, GEO. L. DRAKE, and B. F. HEINTZLEMAN, forest examiners.

CHECK SCALING.—E. C. ERICKSON, lumberman.

TIMBER SURVEYS AND WORKING PLANS.—C. J. CONOVER and GEORGE A. BRIGHT, forest examiners.

INSECT CONTROL.—A. J. JAENICKE, forest examiner.

PLANTING AND FOREST INVESTIGATIONS.—J. F. KÜMMEL, W. H. LEVE, and R. H. WEITKNECHT, forest examiners.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

STUDIES.—D. C. INGRAM, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—T. M. TALBOTT, national forest examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

RECREATION.—FRED W. CLEATOR, forest supervisor.

LAND EXCHANGES.—WM. RYLE TEED, national forest examiner.

ENGINEERING.—PHILIP H. DATER, district engineer; D. V. STROOP, administrative assistant.

MAPS AND SURVEYS.—H. D. FOSTER, forest examiner.

Drafting.— ———.

Surveys.— ———.

Entry Surveys.—GEORGE W. ROOT.

ROADS.—PHILIP H. DATER, in charge; CECIL A. LORD.

WATER POWER.—E. W. KRAMER (temporarily on detail from district 1).

PRODUCTS.—W. H. GIBBONS, forest examiner in charge; C. W. GOULD, forest examiner, Portland; C. W. ZIMMERMAN and H. C. STINSON, engineer and assistant engineer in forest products, Seattle.

NATIONAL FORESTS.

ALASKA.

Chugach.—C. H. FLORY, superintendent of Alaska Forests, Ketchikan (SC, U. S. A., WU); C. T. Beach, forest supervisor, Cordova (WU, P).

Tongass.—C. H. FLORY, forest supervisor, Ketchikan (SC, U. S. A., WU).

OREGON.

Cascade.—N. F. MACDUFF, forest supervisor, Eugene (WU, P).

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P); Fred A. Matz, national forest examiner; H. M. Johnson, forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); W. O. Harriman, deputy forest supervisor; W. J. Sproat, forest examiner; F. V. Horton, grazing examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P); R. A. Bradley and D. F. Brennan, deputy forest supervisors.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Exp. via Baker).

Minam.—R. M. EVANS, forest supervisor, Baker (WU); J. F. Irwin, deputy forest supervisor.

Ochoco.—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T).

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P); Carl B. Neal, deputy forest supervisor.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

Siskiyou.—E. H. MACDANIELS, forest supervisor, Grants Pass (WU, P); T. M. Hunt, deputy forest supervisor; H. A. Haefner, forest examiner.

Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P); E. H. Vincent, deputy forest supervisor.

Umatilla.—W. W. CRYDER, forest supervisor, Pendleton (WU, P).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P); George Bonebrake, deputy forest supervisor.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU); N. J. Billings, deputy forest supervisor; A. R. Wilcox, forest examiner.

Wenaha.—See Washington.

Whitman.—R. M. EVANS, forest supervisor, Baker (WU) ; I. E. Jones, deputy forest supervisor ; Walter L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T—Exp. via Wenatchee) ; E. O. Blankenship, deputy forest supervisor.

Columbia.—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P).

Colville.—C. C. REID, forest supervisor, Republic (WU, P).

Okanogan.—P. T. HARRIS, forest supervisor, Okanogan (PT & T—Exp. via Wenatchee) ; G. E. Mitchell, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P) ; Chris Morgenroth, deputy forest supervisor ; A. A. Griffin and O. F. Ericson, forest examiners.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P) ; E. J. Fenby, deputy forest supervisor ; F. B. Kellogg, forest examiner.

Snoqualmie.—W. G. WEIGLE, forest supervisor, Seattle (WU, P) ; Lewis A. Treen, jr., forest supervisor ; Edward J. Hanzlik, forest examiner.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P) ; R. L. Campbell, deputy forest supervisor.

Wenaha.—JOHN C. KUHN, forest supervisor, Walla Walla (WU).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU) ; W. F. Ramsdell, forest examiner.

DISTRICT 7.

EASTERN DISTRICT.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, district forester.

ACCOUNTS.—J. H. KERRICK, district fiscal agent.

OPERATION, } H. O. STABLER, assistant district forester ; JOHN
ENGINEERING, } W. FOX, assistant engineer.

SILVICULTURE.—I. F. ELDREDGE, assistant district forester ; E. V.

CLARK, national forest examiner.

GRAZING, } F. W. REED, district forester ; W. F. HILL, national for-
LANDS, } est examiner.

NATIONAL FORESTS.

ALABAMA.

Alabama.—BURLEY M. LUFBURROW, forest ranger in charge, Moulton.

ARKANSAS.

Arkansas.—CHAS. A. PLYMALE, forest supervisor, Hot Springs (WU, P) ;
Wm. E. White, deputy forest supervisor ; R. C. Huey, national
forest examiner.

Ozark.—BEN F. VAUGHAN, forest supervisor, Russellville (WU).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola (WU, P) ; C. H.
Rogers, deputy forest supervisor.

GEORGIA.

Georgia.—See Tennessee.

Savannah.—See North Carolina.

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham (WU, P) ;
H. R. Currier, deputy forest supervisor ; E. D. Fletcher,
national forest examiner.

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and
Pisgah purchase areas and Pisgah National Forest and Game
Preserve).—VERNE RHOADES, forest supervisor, Asheville
(WU, P) ; Ira T. Yarnall, forest examiner.

Savannah (includes south half of Nantahala and the Savannah purchase
areas).—R. W. SHIELDS, forest supervisor, Franklin
(WU, P).

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest examiner, in charge, Rio Piedras.

SOUTH CAROLINA.

Savannah.—See North Carolina.

TENNESSEE.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Athens (WU, P) ;
C. E. Beaumont, forest examiner.

White Top (includes Unaka and White Top purchase areas).—H. L.
RUSSELL, forest supervisor, Johnson City (WU, P) ; W. E.
Hedges, national forest examiner.

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest supervisor, Buena Vista (WU, P) ; H. M. Sears, forest examiner.

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg (WU, P) ; Wm. H. Stoneburner, deputy forest supervisor.

White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins (WU, P).

SERVICE CHANGES.

APPOINTED.

LABORATORY.—W. L. Jones, engineer in forest products. W. K. Loughborough, assistant engineer in forest products. Jacob M. Fix, Julius Moehlman, and Stanley Oldham, laboratory aids and engineers. Gladys D. Tyrrell and Olive M. Parr, laboratory helpers. Emily H. Vojacek, clerk (stenographer and typewriter). Melva Lappley, messenger. Eber T. Giles, carpenter.

DISTRICT 1.—L. F. Jefferson (reinstatement) and Fred C. Wilfong, Jefferson ; Wm. J. Bell, Bitterroot ; Edward Mackay, Lolo ; E. D. Eiselstein, Coeur d'Alene ; Eugene J. Rogers, Lewis and Clark, forest rangers. John B. Taylor (reinstatement), Clearwater, forest examiner. Murray E. Skillman, Deerlodge, scaler. Mary S. Hall and Olive Leaf, Deerlodge ; Ella M. Treichler, Jefferson, clerks (stenographers and typewriters). Olive B. White and Gladys I. Jackson, Helena ; Lillian E. Pepper, Gallatin ; Thomas G. Watson, clerks (typewriters). Anna E. Veleber, Beaverhead, clerk (stenographer). George A. Duncan, surveyor-draftsman.

DISTRICT 2.—Herbert J. Devries, Pike, clerk (stenographer and typewriter). Clair V. Cooke (reinstatement), Harney, forest ranger. Harry W. Elofson, grazing assistant. William O. P. Fullerton, surveyor. Austin P. Russell, surveyor-draftsman. H. Ellis Sealing (reinstatement), draftsman (topographic). Elsie L. Egerer, clerk (stenographer and typewriter). Eleanor L. Wright, clerk (typewriter).

DISTRICT 3.—Morton M. Cheney (reinstatement), national forest examiner. Joseph P. W. Arnold, surveyor (draftsman). Johnathan L. Hughes (reinstatement), Carson ; William R. Warner (reinstatement), Gila ; Bert I. Menzies, Prescott, forest rangers. Joseph Henry Lackey, Carson ; Nina Harbeson, Coconino ; Rosemary R. Campbell, Prescott, clerks.

DISTRICT 4.—Carl B. Arentson (reinstatement), forest supervisor. Effie J. McQueen, Nevada, clerk (typewriter). Leonard K. Higgins, unskilled laborer.

DISTRICT 5.—Mrs. Christel L. Decker and Gertrude R. Rath, clerks (stenographers and typewriters).

DISTRICT 6.—Robert E. Foote, Colville; James Douglas Johnson, Deschutes; Harvey S. Albertson and Richard E. Grantham, Okanogan; Fred M. Gruver, Siskiyou; Leroy Erskine Garwood (reinstatement), Siuslaw; Chauncey E. Bullen, Snoqualmie, forest rangers. Emma L. Graber, Mildred G. Sinnott, and Ada A. Wiest, clerks (stenographers and typewriters).

DISTRICT 7.—Nettie B. Kilgore, Arkansas, clerk. Charles W. Fritts, Ozark; J. Wm. Bowman, Shenandoah, forest rangers.

PROMOTED IN RANK.

OPERATION.—Roy Headley, from assistant district forester to assistant forester. Evan W. Kelley, from national forest examiner to inspector.

ACQUISITION.—Herbert A. Regan, forest ranger to national forest examiner.

LABORATORY.—R. P. A. Johnson, J. R. Watkins, and J. D. MacLean, assistant engineers to engineers. C. A. Harrison, laboratory aid and engineer to assistant engineer in forest products.

DISTRICT 1.—Richard H. Rutledge, assistant district forester to district forester. Glen A. Smith, Kootenai, forest supervisor to assistant district forester. Thomas P. Maloy, Missoula, forest assistant to forest examiner. James E. Ryan, Pend Oreille; O. C. Bradeen, deputy forest supervisors to forest supervisors. Leslie G. Vinal, Kootenai, deputy forest supervisor to fire assistant. Lee Stratton, Missoula, forest clerk to deputy forest supervisor. J. W. Stanton, Custer; E. H. Myrick, Flathead; Clyde P. Fickes, Nezperce; E. J. Yeomans, Jefferson, forest rangers to deputy forest supervisors.

DISTRICT 3.—Edward P. Ancona, deputy forest supervisor to forest supervisor. John A. Adams, Coconino, forest ranger to deputy forest supervisor. Jack E. Marlowe, forest ranger to grazing examiner.

DISTRICT 5.—Frank Haynie, compiler to national forest inspector.

DISTRICT 6.—William O. Harriman, Deschutes, forest ranger to deputy forest supervisor. Fred W. Cleator, deputy forest supervisor to forest supervisor.

DISTRICT 7.—Andrew J. James, Arkansas, forest ranger to scaler.

CHANGE IN DESIGNATION.

DISTRICT 1.—E. J. Yeomans and G. Willard Jones, Lolo, forest examiners to forest rangers. Lawrence D. Dunn, Pend Oreille, forest assistant to forest ranger. Henry Wold, forest ranger to forest clerk.

DISTRICT 2.—James L. Brownlee, junior engineer to senior engineer. Lionel C. Anderson, Medicine Bow, forest assistant to forest ranger.

DISTRICT 3.—Frank E. Andrews, national forest examiner to forest supervisor.

DISTRICT 4.—Charles D. Simpson, forest supervisor to forest examiner.

DISTRICT 5.—Richard A. Colgan, jr., industrial examiner in forest products to forest examiner.

DISTRICT 6.—Willett F. Ramsdell, deputy forest supervisor to forest examiner.

DISTRICT 7.—Tollie T. Hall, Ozark, forest ranger to clerk.

RESIGNED.

ACQUISITION.—William L. Hall, assistant forester. Frank T. Murphy and Walter J. Damtoft, forest examiners. Samuel Corbin, forest assistant. Robert C. Brown, forest ranger.

RESEARCH.—John T. Harris, statistician in forest products.

LABORATORY.—J. D. Deihl, administrative assistant. A. Elmendorf, C. H. Teesdale, and H. D. Frary, engineers in forest products. E. P. Connor, L. K. Pomeroy, Russell E. Pedder, Richard M. Nash, and Galge S. Roberts, laboratory aids and engineers. Edward Caluwaert and Francis S. Gombar, laboratory helpers. Mrs. Blithe A. Edwards, Bernice Albright, Lynn Lillesand, and W. W. Jones, clerks (computing). Ella Dahle and Mrs. Maleta MacMurray, clerks (stenographers and typewriters). Clifton M. Tuttle, photographer (second grade).

DISTRICT 1.—Fred W. Beier, deputy forest supervisor. Clark Miles, Kootenai, fire assistant. Fred Millwood, Coeur d'Alene; A. E. Beckwith, Kootenai; John P. Bonham, Jefferson; Ashton V. Kunkel, Nezperce; Harrison M. Crane, Gallatin; Paul H. Gerrard, Clearwater; James W. Parker, Absaroka; Frank S. Pitt, Selway, forest rangers. R. L. Hess, Kootenai, scaler. Lucy L. Likes and Ada M. Argall, St. Joe; Thelma Jensen, Beaverhead; Florence Coffin, Selway; Myrtle E. Vealey, clerks (stenographers and typewriters).

DISTRICT 2.—Howard H. Richmond, Arapaho, forest examiner. Warner Tyler, White River, forest clerk. Mrs. Ruth B. Woods, Shoshone, clerk (stenographer and typewriter). Forrest E. Young, Shoshone; John C. Peryam, Hayden; Edmund Couch, Leadville; Clyde E. Green, Michigan; Charles W. Frost, San Juan, forest rangers. William O. P. Fullerton, surveyor. Eleanor L. Wright, clerk (typewriter).

DISTRICT 3.—Frank D. Yost, surveyor. J. Wilbur O'Byrne, Coconino, forest examiner. John J. Gaulrapp and Clarence Weatherford, Datil; Oscar J. Williams, Santa Fe; Carl H. Riblett, Sitgreaves; Bent S. Benson, Tonto, forest rangers. Jay Montgomery, Tusayan, forest clerk.

DISTRICT 4.—John C. Benson, Dixie; Henry W. May, Idaho; Frederick L. Mott, Toiyabe; Andrew Romero and Irvin M. Varner, Cache,

forest rangers. Emyr E. Jones, Ashley, clerk (typewriter). Cedric A. Martin, surveyor. Joseph W. Tite, messenger boy.

DISTRICT 5.—Coert Du Bois, district forester. Lewis Carrigan, deputy forest supervisor. M. Raymond Tillotson, Cleveland, forest supervisor. Elmer L. Scott, Eldorado, deputy forest supervisor. Harold T. Williams, Mono; Stephen A. Douglass, Santa Barbara; Robert R. Martin and Frank L. St. Clair, Sequoia; Archer E. Roberts, Shasta; Benjamin H. Randolph, Trinity, forest rangers. John T. Noddin, Lassen, scaler. Clarence W. Griggs, Plumas, forest clerk. Ralph Hopping, national forest examiner. Chas. E. Miller, draftsman. Alice M. Tooley, Catherine A. Maher, and Cecil E. Newman, clerks (stenographers and typewriters). Clara C. Lund, messenger.

DISTRICT 6.—Harry R. Elliott, Colville; William F. Burge, Malheur; James F. Hutton and Gustavus A. Whitehead, Olympic; John B. Curl, Siskiyou; William F. Rankin, Whitman, forest rangers. Maude Sheidler, Wenatchee, clerk (stenographer and typewriter). Benjamin A. Eddy, surveyor.

DISTRICT 7.—Francis Kiefer, assistant district forester. Joseph R. Gill, Arkansas; James M. Wait, Ozark; Max McCullough, Cherokee-Georgia; Ralph McCormick, White Top, forest rangers. John C. Vandivier, Arkansas, scaler.

With deep regret announcement is made of the death of Harold M. Morrison, forest ranger, district 4, December 12.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

FORESTER.

Organization of Branch of Forest Management.

The return of the men from France makes possible the readjustment of the organization of Silviculture to the new conditions. It is my desire to broaden the scope of the work of the Branch, with special view to the promotion of the practice of forestry outside the National Forests. Until his resignation Mr. Hall was my immediate assistant in the work of forwarding the new forestry movement. This work will now be assigned to the Branch of Silviculture. The extension work on farm woodlands and assistance to private owners in the practice of silviculture will be transferred from Research to Silviculture.

The development of the practice of forestry on private as well as public lands calls for more specialized direction in the overhead organization. To secure this it is desirable to divide the work of the East from that of the West, and thus to establish an eastern and a western division. The western division will be in charge of Forest Inspector R. Y. Stuart, and the eastern division in charge of Forest Inspector E. E. Carter. Each of these men will assist the chief of Branch in the direction of all the work of the Branch within his respective division. In effect these men will be associate chiefs of Branch, to whom the chief will delegate large authority in their respective fields. Either of them, however, is subject to call to aid in the field of the other, just as any of the other assistants in the Branch may be called upon to do work outside of the district constituting his main assignment. Field inspection by the officer in charge and his assistants will ordinarily be limited to their own division.

WESTERN DIVISION.

This division will be responsible for the silvicultural and management work on National Forests west of the Great Plains, for cooperation with other Federal agencies, and for State cooperative work in this region, including cooperation under the Weeks law, and for the extension and application of forestry on private lands. These activities will be conducted through the existing district organizations. The

western division will draw freely upon the personnel in the former office of State cooperation for help and advice in conducting State cooperative work, but Mr. Peters is relieved from further responsibility for such work in the Western States, which will rest hereafter with the western division.

Forest Inspector C. G. Smith is assigned as assistant to the officer in charge of the western division.

EASTERN DIVISION.

This division will be responsible for the silvicultural and management work on National Forests east of the Great Plains, including the States east of North and South Dakota, Nebraska, Kansas, and New Mexico, for cooperation with other Federal agencies and for State cooperative work in this region, and for the extension and application of forestry on private lands. The cooperative and extension work will be conducted through the existing district organizations to the extent practicable. The functions of district 7 in these activities, within the territory under its jurisdiction, will be defined by the officer in charge of the division. It will also be necessary to conduct a large part of the eastern cooperative and extension work directly from the office of the eastern division by personnel assigned to that office.

The office of State cooperation will be discontinued. Mr. Peters is assigned as assistant to the officer in charge of the eastern division. He will continue to be the Service expert on State legislation and cooperative work, but it is anticipated that his duties will be broadened in character to include participation in the work of the Branch dealing with eastern National Forests. The other personnel in State cooperation is assigned to the eastern division. Mr. Cary will also report to the officer in charge of that division, who will make such assignments of the personnel in his office as will most effectively discharge the responsibilities of the division.

EXTENSION OF FORESTRY TO PRIVATE LANDS.

The Branch of Silviculture will be responsible hereafter for the extension of forestry to private lands, including all phases of cooperation with the States in forest protection and management. Each district forester will make such assignments, with the approval of the Branch, as are necessary to provide for the extension and cooperative work in his district. The chief of Branch will make such additional assignments to the eastern or western division and such allotments of special duties as are necessary to provide for the general features of the extension program and for extension and cooperative work in undistricted territory.

The foregoing organization will become effective January 15, 1920. On the same date the name of the Branch of Silviculture will be changed to the Branch of Forest Management. No changes in existing file designations are necessary. The Forestry Program file will, however, be given an "S" designation hereafter and carried in the Branch.

H. S. GRAVES,
Forester.

SERVICE PUBLICATIONS ISSUED.

Circular 148, Office of the Secretary.—A Policy of Forestry for the Nation.

Unnumbered Publication.—Report of the Forester for 1919.

Unnumbered Publication.—Tight and Slack Cooperage Production in 1918.

Unnumbered Publication.—Area Table.

